	epartn	ment of Commerce)					Atty. Dkt. No.	M#		Client Re	∍f.
(PW FORM		-1449) rademark Office										
	and .	radoman Cinos							220574		22:001	
INFORM	ATIO	N DISCLOSUF	RE ST	ATEN	/ENT			A = =1:===4	0305710		GNC8L	JS
BY APPL				•	•		Applicant					
								Appln. No			·	
Date: Sent	embe	er 17, 2003	Page	1	of	6				mber 17, 2003	A-4 I India	-
	_	OCUMENTS	li nan	<u> </u>	101			Examiner	-	JGrou	p Art Unit:	
Examiner'	<u> </u>	Document		Date		Name				Class	Sub	Filing
s Initials*		Number		MM/Y	/		ame	of First Inv	/entor)	Jiass	Class	Date (if appropriate)
	AR	4,245,306		01/19	81	Besemer	et al.					
	BR	4,827,508		05/19	89	SHEAR						
	CR	4,918,596		04/19	90	NAKANO						
-	DR	4,969,092		11/19	90	SHORTE	R					
	ER	5,025,369		06/19	91	SCHWAR	?TZ					
	_	5,031,089		07/19	91	LIU et al.						
	GR	5,103,393		04/19	92	HARRIS 6	et al.					
	HR	5,109,329		04/19	92	STRELIO	FF					
	IR	5,109,512		04/19	92	BAHR et a	<u>al.</u>					
	1	5,136,708		08/19		LAPOUR1	ΓE et	al.				
	<u> </u>	5,155,808		10/19		SHIMIZU						
		5,237,507		08/19		CHASEK			· · · · · · · · · · · · · · · · · ·			
		5,291,494		03/19	_	BRUCKER						
		5,341,477		08/19		PITKIN et						
		5,349,682		09/19		ROSENBE						
		5,357,632		10/19		PIAN et al						
		5,361,362		11/199		BENKESE	Ret	al				
		5,381,534		01/199		SHI						
		5,388,211		02/199		HORNBU						_
		5,392,400		02/199		BERKOW						_
		5,410,651		04/199		SEKIZAW						
		5,426,741		06/199		BUTTS, JI	₹. et a	al				
		5,428,783 5,457,707		06/199		LAKE					_	
		5,457,797 5,515,511		10/199		BUTTERW		H et al.				
		5,515,511 5,522,070		05/199		NGUYEN						
		5,522,070 5,535,408		05/199		SUMIMOT	<u>0</u>					
		5,546,594		07/199 08/199		HILLIS WAZUMI	· · ·	-			 	
		5,550,984		08/199		GELB						-
		5,568,375		10/199		RAUSCH					 	+
		5,572,643		11/199		JUDSON					 	
		5,586,121		12/199		MOURA et	 le l				+	
		5,590,284		12/199		CROSETT					 	
		5,592,376		01/199		HODROFF					 	
		5,594,491		01/199		HODGE et						-
Examiner		-,00 1, 10 1		<u>0 17 1 0 0</u>	10	LIODOL GI		Date Consid	dered:			
								Jato Corion	JOICG.			

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

(PW FORM	epartm PAT-	ent of Commerc					Atty. Dkt. No.	M#		Client Re	f.	
								0305710		GNC8L	IS	
		N DISCLOSU	JRE ST	ATEN	IENT		Applicant	: ELLIS, III				
BY APPL	ICAN	i T						Appin. No				
									te: Septembe	r 17, 2003		-
Date: Sept	embe	r 17. 2003	Page	2	of	6	Ī		r: D. DINH		Art Unit:	2153
		OCUMENTS		1.=		1	.1					
Examiner'	T	Document		Date		Name		, e		Class	Sub	Filing
S		Number		MM/	YYYY		lame	of First Inv	ventor)		Class	Date
Initials*												(if appropriate)
	JJR	5,608,448		03/19	997	SMORAL	et al	·				
	KKR	5,615,127		03/19	997	BEATTY	et al.					
	LLR	5,666,484	_	09/19	97	ORIMO e	t al.					
	MMR	5,678,028		10/19	997	BERSHT	EYN (et al				
	NNR	5,680,548		10/19	97	TRUGMA	N					
	OOR	5,696,902		12/19	997	LUCLER	CQ et	al.				
	PPR	5,710,884		01/19	998	DEDRIC	<				ļ	
	QQR	5,748,489		05/19	998	BEATTY	et al.		_		ļ	
	RRR	5,758,077		05/19	998	DANAHY	et al.					
	SSR	5,758,345		05/19	998	WANG						
	TTR	5,761,507		06/19	998	GOVETT	•					
	UUR	5,774,668		06/19	998	CHOQUI	ER et	al.			ļ	
	VVR	5,790,431		08/19	98	AHRENS	, Jr. e	t al.			ļ	
		5,793,968		08/19	998	GREGEF	RSON	et al.				
<u>.</u>		5,794,059		08/19		BARKER						
		5,815,665		09/19		TEPER e					-	
		5,815,793		09/19		FERGUS	ON				<u> </u>	
.	1	5,826,014		10/19		COLEY					<u> </u>	
	+	5,828,833		10/19		BELVILL		_				
		5,844,594		12/19		FERGUS					<u> </u>	
	1	5,845,074		12/19		KOBATA					ŀ	
		5,850,449		12/19		MCMANI						
		5,864,738		01/19	-	KESSLEI	R et a	l.	· · · · · · · · · · · · · · · · · · ·			
	1	5,881,284		03/19		KUBO					<u> </u>	
		5,588,003		12/19		OHBA et		-1 -1			+	
		5,889,989		03/19		ROBERT					 	-
		5,909,681		06/19		PASSER						
		5,917,629		06/19		HORTEN		et al.				
· · · · · ·	+	5,930,511		07/19		HINSLEY						<u> </u>
	_	5,964,832		10/19		KISOR	nt n!		<u> </u>		-	
	1	5,978,829		11/19		CHUNG				1	+	
	1	6,052,555	<u></u>	04/20		FERGUS	ON					
		6,098,091		08/20		KISOR	t ol					+
		6,112,225		08/20		KRAFT e					 	
		6,112,243 6,115,698		08/20		DOWNS TUCK et						
Examiner	JOSSI	0,113,030		103/20	,00	TIOOK BE	aı.	Date Cons	idered:	1		
								,				

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449)								Atty. Dkt. No.	M#			Client	Ref.		
		rademark Office										ļ			
									0305	5710		GNC	8US		
		N DISCLOSUF	RE STA	ATEN	/ENT			Applicant:	ELL	.IS, III					
BY APPL	ICAI	41						Appln. No).:						
								Filing Dat	e: Se	eptember 17, 2	003				
Date: Sept	embe	er 17, 2003	Page	3	of	6	<u></u>	Examiner	: D. I	DINH (p Art Ur	nit: :	2153	
FOREIGN	PAT	ENT DOCUMEN	TS									English		Translat	
		Document Number	Date MM/Y	YYY	Cour	ntry	Inver	ntor Name				Abstract		Readily Availabl	
	AR	WO 98/26366	06/19	98	WIP	O	Ellis								
_	BR	0 853 279	07/19	98	EUR	OPE	Naga	ratina et a	ıl. <u> </u>						
	CR	WO 94/01964	01/19	94	WIP)	Craic]							
	DR	WO 95/01060	01/19	95			er et al.								
	ER		<u> </u>	<u>.</u>	<u> </u>										
OTHER (Ir	nclud	ing in this order A	Author,	Title,	Perio	dical Name	e, Date	e, Pertinen	t Pag	es, etc.)					
	FR	"Ein-Chip-Firew	all," El€	ktron	iknet	Top News,	XP-0	02164257							
	GR	"Means for Impl Technical Disck 000110310													i
	HR	Alexandrov et al., "SuperWeb: Research Issues in Java-Based Global Computing," Concurrency, Vol. 9, No. 6, June 1997, pages 535-553													
	IR	Baratloo et al., " Conference on I 1-8									es				
	JR	Bevinakoppa et Proc. of 5 th Aust Amsterdam, pp.	tralian ⁻								5,				
	KR	Blumofe, R. et a Workstations," F Computing, pp.	al., "Sch Proc. O	f the	3 ^{ra} IEE	E Int'l Syr									
	LR	Brecht et al., "Pathe Seventh Act									f				
	MR	Capello et al., "N Third Working C pages 118-129									gs				
	NR	Celenk, M. et al Proc. Of the 199 Communication	95 IEEE	E 14 th	Annua	al Int'i Pho	LANs enix C	and Perfo	orman ompu	ice Analysis," ters and					
		the 16 th Int'l. Co	nf. On l	Distrib	outed (Computing	Syste	ems, pp. 6	73-67	9, May 1996	f				
	PR	Clark, H. et al., ' Workstations," F 732-741, April 1	Proc. O	SS-A I	Distrib 5 th Dis	uted Com tributed M	puter (emory	Server Utili Computin	izing ig Co	ldle nf., IEEE, pp.					
	QR	Fogg, C., "Surve Image and Vide						rchitecture	es," S	PIE, vol. 2186,					
	RR	Fox et al., "Towa Evolving Virtual June 10, 1996,	Machin	ie," w											
Examiner								Date Consi							
EXAMINE	₹:	Initial if citation co	nsidere	d, whe	ether o	r not citatio	n is in	conformanc	e with	MPEP § 609.	Draw	line thro	ugh	citation	if

not in conformance and not considered. Include copy of this form with next communication to Applicant.

To: U.S. [(PW FORI	Departi M PAT	9 (modified) ment of Commerce -1449) Frademark Office		Atty. Dkt. No.	M#	Client	Ref.			
::::ODA		*** 51531 SQUIDE 6					0305710	GNC	SUS	;
INFORM BY APP		ON DISCLOSURE ST	TATEMENI			Applicant:	ELLIS, III			
DI ALL	LIVA	IN I				Appln. No				
				r			e: September 17, 20			
		er 17, 2003 Page	4 of	6				oup Art U	<u>nit: 2</u>	2153
OTHER		ling in this order Author							-	┼
	Art	Fox et al., "Towards V Evolving Virtual Mach High Performance Dis	ine," as prese	ented at 5 th	IEEE	E Internation	onal Symposium on	n		
	BR	Fox, E., "Advances in 1991, pp. 9-21	Interactive D	igital Multim	nedia	Systems,	" Computer, Oct.			
	CR	40-49								
	DR	Hayes, "Computing S 1998, pages 1-8					······································			
	ER	Kim, B., "ATM Networ 1995, vol. 38, No. 2, p	p. 39-44, 109)				D.		
	FR	Kremien, O., "Buying Of the 4 th Int'l. Conf. C 619, Sep. 1995	On Computer	Communica	ation	s and Net	works, IEEE, pp. 616-			
		1995, pp 62-66, 102-1	05			•				
		Lindley, C., "JPEG-Lik pp. 50-58, 101-102						,		
	IR	Litzkow et al., "Condo On Distributed Compu	ıting Systems	, IEEE, pp.	104	-111, Jun.	1998			
	JR	McHenry et al., "An FI Programmable Custor XP-002157218	PGA-Based C m Computing	oprocessor Machines 1	for . 1997	ATM Firew , 16-18 Ap	valls," Field- ril 1997, pages 30-39),		
	_	Morris, J., et al., "Faul Conf. On High Perforn	nance Compu	ıting, IEEE,	pp.	271-276, [Dec. 1996			
		Nass, R., "Hardware-s compression," Electro	nic Design, M	lay 3, 1993,	p. 3	6				
		Nowatzyk et al.,"Are C Interconnect Systems, Archtecture, ACM, vol	"Proceedings um 22, June	of the Ann 1995, pages	ual S s 106	Symposium 5-115, XP	on Computer 000687800			
		Ozer, "Digital Video: S								
		Ozer, J., "Why MPEG								
	PR	Plotkin, "The Digital Co Needs," 1994 IEEE, p		acility-A So	lutio	n to Today	's Compression			
	QR	Qiao et al.,"Time-Divis 1991, pages 644-653,	ion Optical Co		ons	in Multipro	cessor Arrays," ACM	,		
	RR	Rincon et al.,"The Cha Third Quarter 1999, w Vol. 5, No. 3	nging Landso	cape of Syst						
		Sachs, M. et al., "LAN Dec. 1994, pp. 24-32	and I/O Conv	ergence: A	Sun	vey of the	Issues," Computer,			
		Sakano et al.,"A Three Board Free-Space Opt XP 000463415	-Dimensional tical Interconn	Mesh Multi nects: COSI	iprod NE-l	essor Sys	tem Using Board-to- 1993, pages 278-283			
xaminer						Date Consid				
EXAMINER	R:	Initial if citation considere	d, whether or r	not citation is	in c	onformance	with MPEP § 609. Dra	aw line thro	ugh c	itation if
Ot in como	<u>/rmane</u>	e and not considered. Inc	lude copy of tr	nis form with	next	communica	ation to Applicant.			

FORM PTO-1449 (modified) To: U.S. Department of Commerce (PW FORM PAT-1449) Patent and Trademark Office								Atty. Dkt. No.	M#		Client I	Ref.		
	T 10	N DIGGL GGUI	DE OT	~	4ENT				0305710		GNC	<u>3US</u>		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT									:: ELLIS, III					
BT APPLICANT								Appln. No						
					_				te: September 17,					
Date: Septe	embe	er 17, 2003	Page	5_	of	6	<u></u>	Examine	r: D. DINH	Grou	p Art Un	<u>iit: 2</u>	153	
		ng in this order												—
	AR	Schroeder, E., Computing, PC			•	•		o standar	d," Desktop					
		Time!", Proc. O 1995	f SPIE	Conf.	On D	igital Video	Com	pression,	er: Faster than Re San Jose, CA, Fe	b.				
	CR	Shiuan, J. et al., "Client-Server Based Ray-Tracer Using ASTRA: An Asynchronous RPC Mechanism," Computer Communications, vol. 19, No. 5, pp. 445-455, May 1996												
	DR								Synchronized Auc . 353-368	lio in				
	ER	a Unix Workstation Environment," USENIX-Summer '91, pp. 353-368 Theimer et al., "Finding Idle Machines in a Workstation-Based Distributed System," IEEE Trans. On Software Engineering, vol. 15, No. 11, pp 1444-1458, Nov. 1989												
	FR	Vetter, R., "ATM Concepts, Architectures, and Protocols," Communications of the ACM, Feb. 1995; vol. 38, No. 2, pp. 30-38, 109												
	GR	Vetter, R., et al., "Issues and Challenges in ATM Networks," Communications of the ACM, 2/1995; vol. 38, No. 2, pp. 28-29								of				
	HR	Waldspurger et Transactions of 117, XP-00212	n Softwa	awn: are E	A Dis	stributed Cering, Vol.	ompu 18, No	tational Ed b. 2, Febru	conomy," IEEE uary 1992, pages 1	03-				
	IR	Yoshida, J., "M Engineering Tir					of for	ce at NAB	," Electronic					
	JR	Yu, Y. et al., "S Programming in							ncoding Using Soc	ket				
	KR	HARE et al., "M Network Securi							Internet Firewalls	and				
	LR	FIELDS, Scott, Computing Net Madison. Inter	works F	uts l	dle PC	's to Work	", 19 9	3 Univers	ity of Wisconsin-					
	MR	N/A, "Aliens on	your de	sktor	o", The	Economis	t, Ap	ril 18, 199	8, p. 78.				L	
	NR	Mitzi Waltz, "Ma 1992 (Dialog fu		Pay:	Billing	Net Usag	e," M	acWeek, v	/6 n27 p24(2), July	27,				
	OR	"The Economie Improve Efficie (Dialog fulltext)	ncy and	twork Cut	Billing Costs,	g: Network "IBM Syst	Billin em U	g and Mo ser, v14 n	nitoring Systems C 11 p53(1), Nov. 19	ean 193				
	PR	"Let Your Comp (Dialog fulltext)		ake M	loney	While You	Sleep	o," Newsb	yte, Aug. 16, 1996					
	QR	Brown et al., Sp 1995, Ch. 1-2	oecial E	dition	Using	Netscape	™ 2 5	Second Ed	dition, Que Corpora	ation,				
	RR	Gilder, "Angst a December 4, 19		on t	he Inte	ernet by Ge	orge	Gilder", F	orbes ASAP,					
Examiner								Date Con						
*EXAMINER		Initial if citation c	onsidere	d, wh	ether o	r not citatio	n is in	conforman	ce with MPEP § 609). Draw	line thro	ugh	citation	ı if
Inot in confor	man	ce and not consid	ered. Inc	lude (copy of	this form w	ith ne:	t commun	ication to Applicant.					

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH 12/LN/

To: U.S. De	partn PAT-	(modified) nent of Commerce 1449) rademark Office	Atty. Dkt. No.	M#	Client Re	ef.
		,	-	0305710	GNC8L	JS
		N DISCLOSURE STATEMENT	Applicant	: ELLIS, III		
BY APPLI	CAr	N I	Appln. No).:		
			Filing Dat	e: September 17, 2003		
Date: Septe	embe	er 17, 2003 Page 6 of 6			Art Unit:	2153
OTHER (Inc	cludi	ng in this order Author, Title, Periodical Name, Dat	e, Pertiner			
		Tandiary, et al., "Batrun: Utilizing Idle Workstation: Summer 1996, pp. 41-48				
	TR	Brisbin, "Shopping for Internet Access", MacUser, 133(2)	December	r, 1994, v. 10, p.		
1	UR	Gilder, George, "The Bandwidth Tidal Wave", Fort	es ASAP.	December 5, 1994		
\		N/A, "Special Report - Wonder Chips", Business \				
١		N/A, "Supercomputers Divide and Conquer", The I				
		N/A, "Cyber View World Wide Widgets", Scientific				
		Gibbs, "Bandwidth Unlimited", Scientific American,				
	ZR	Markoff, "A New Standard to Govern PC's With Mu Mimicking Supercomputers", The New York Times	ultiple Chip	s, Work Stations		
Į.	AAR	Geoffrey C. Fox and Wojtek Furmanski, Petaops at the Web, "IEEE INTERNET COMPUTING," Vol. 1, pgs. 38-46.	nd Exaop	s: Supercomputing on		
E		Kivanc Dincer and Geoffey C. Fox, Building a Worldon Web and HPCC Technologies, "STUDENT TEChttp://www.supercomp.org/sc96/proceedings/SC96pgs. 1-18.	CHNICAL I	PAPERS",		
C	CCR	M. Hobbs and A. Goscinski, A Remote Process Cr Supporting Parallel Execution on Distributed Syste	eation and	Execution Facility 1996," pgs. 92-99.		
	DDR	Taisuke Boku, Hiroshi Nakamura, Kisaburo Nakaz Architecture of Massively Parallel Processor CP-Pa	awa, and \	oichi lwasaki, The		
		Yoon-Hwa Choi and Yu-Seok Kim, A Diagnostic No Processing Systems, "IEEE 1994," pgs. 348-353.				
		Steven M. Bellovin and William R. Cheswick, Netw Communications Magazine 1994," pgs. 5-57.				
G	GGR	Weiyi et al., "Java-to-Go – Itinerative Computing U http://ptolemy.eecs.berkeley.edu/dgm/javatools/jav	sing Java,' a-to-go/	'September 10, 1996		
F	HHR	Sullivan et al., "A New Major SETI Project Based of 100,000 Personal Computers."	n Project S	Serendip Data and		
		http://setiathome.ss/.berkeley.edu/woody_paper.htm	m/			
Examiner	_/1	ashanya Nash/ (09/23/2008)	Date Consi	dered:		
EXAMINER:		nitial if citation considered, whether or not citation is in ce and not considered. Include copy of this form with next	onformance	e with MPEP § 609. Draw lir	ne through	n citation if